

Colloquium

20
23



INNOVATION IN HUMANITARIAN HABITAT

**Towards a positive
environmental impact**

OCTOBER 27

• NEUMÜNSTER ABBEY •

Luxembourg City, Luxembourg



Visit our website: www.croix-rouge.lu/en/innovation-in-humanitarian-habitat/

INTRODUCTION

Luxembourg has a wealth of experience in engineering and architecture through its schools, university, and industry. This locally-developed expertise has since been shared around the world.

As part of the "Humanitarian Luxembourg Hub" project, the Shelter Research Unit of the International Humanitarian Aid Department of the Luxembourg Red Cross is hosting a technical-scientific conference in Luxembourg City on October 27 2023 to provide an opportunity to develop innovative and sustainable solutions for a more efficient and respectful humanitarian habitat.

The technical-scientific event will be accompanied by a design competition to explore the complementarities between the various players and to encourage exchanges between Luxembourg's flourishing new high-tech sector and the humanitarian architecture sector. The aim is to create an innovative and environmentally friendly shelter prototype through a multidisciplinary workshop.

The competition is open to students wishing to develop and present a prototype shelter in collaboration with manufacturers and industry experts in Luxembourg. The three selected solutions will be exhibited in Luxembourg, and the winner will be tested on the field in one of the countries of action of the Luxembourg Red Cross.

TOPIC PRESENTATION

In Africa, the need for humanitarian shelter is systematically mentioned as one of the three most urgent needs to be met for populations affected by natural disasters or armed conflicts. However, construction methodologies, materials and architectural approaches are still underdeveloped to date.

The Humanitarian Aid department of the Luxembourg Red Cross works in several countries in sub-Saharan Africa, including Mali, Burkina Faso, Niger, and Chad, with shelter and settlement programmes.



In situations involving complex and protracted crises, it is necessary to develop intervention strategies that take into account local building cultures and social aspects, and pay particular attention to the environment, in order to respond effectively and sustainably to the needs of the most vulnerable households.

The project aims to respond to the need for humanitarian construction in Africa by bringing additional engineering and architectural expertise, as well as the technical and professional capacity available in the Luxembourgish market to meet this need.

1 EVENT, 3 EXPERIENCES

1. Scientific Conference - Innovation in Humanitarian Habitat

The Humanitarian Aid department of the Luxembourg Red Cross is organising a scientific conference targeted at researchers and PhD students. The conference aims to promote relevant research to the humanitarian sector and the environment while ensuring gender inclusion. Interested participants can submit their papers to the scientific committee, which will evaluate and provide comments, and may approve the paper for presentation during the conference (see call for extended abstracts). The conference will be held either virtually or face-to-face, with details to be defined at a later stage. After the event, selected papers will be published digitally on the organizers' websites.

How to participate

To register and submit their papers, participants should contact us via e-mail to aide.Internationale@croix-rouge.lu.



SCIENTIFIC CONFERENCE CALENDAR FOR RESEARCHERS AND PHD STUDENTS

MAY

15

Call for extended abstracts

JUNE

1

Conference registration
opens

SEPTEMBER

15

Deadline to submit full
papers

OCTOBER

1

Conference registration
closure

OCTOBER

2

Notification to the authors

OCTOBER

27

Conference



1 EVENT, 3 EXPERIENCES

2. Technical exchange - The Humanitarian Habitat Showcase in Luxembourg

The Humanitarian Habitat Showcase in Luxembourg is a technical exchange event that includes exhibitions and round tables. The target audience is composed of humanitarian experts, workers with field experience, manufacturers working in the humanitarian sector, and sector-related professionals. The selection criteria encompass the inclusion of gender, relevance to the sector, relation to Humanitarian Habitat, and the environment.

Participants can take part in the event by responding to a nominative call for participants for the roundtables. Participants are free to choose their own presentation format. A digital presentation will be made available after the event.



1 EVENT, 3 EXPERIENCES

3. Students' competition - Towards a Positive Environmental Impact, A Shelter Challenge

Towards Positive Humanitarian Impact is a competition for *master's students*, as well as *bachelor's level* students who are on track to graduate during the 2023/24 academic year, with an architecture or engineering profile. This competition focuses on promoting local creations with a global impact. The participation of multidisciplinary teams, including professionals and manufacturers, is strongly encouraged and adds value to the submissions. Proposals will also be judged on their technical feasibility. Please read the calls for proposals document to find out how to participate.

Registration

To complete the registration process, students should email us at aide.international@croix-rouge.lu and attach the completed registration letter available on our website www.croix-rouge.lu/en/innovation-in-humanitarian-habitat/.

Prizes

Following the event, the three selected projects will be exhibited. The winning prototype will be *tested in the field* in a country where the Red Cross Humanitarian Aid Department is active, with priority given to the Sahel region. The winning team will be awarded a *prize of €5,000*.



STUDENTS COMPETITION CALENDAR

Towards Positive Environmental Impact - A Shelter Challenge

JUIN
2023 Competition launch

OCTOBER
10 Submission of proposals

OCTOBER
15 Publication of the selected proposals and budget allocation

OCTOBER
26 Prototype construction

OCTOBER
27 Exhibition and Awards ceremony

2024 Feasibility assessment, redesign and field testing



PROVISIONAL PROGRAMME

Friday 27th of October 2023

10h00- 10h15: Inauguration event

- *Salle plénière*

10h15- 10h30: Tour of the student-built prototypes

- *Hall*

10h30-12h30: Presentation of the papers and round table discussion

- *First round table discussion - Salle plénière*
- *Presentation of the papers (Phase 1) - Lobby 1 and Lobby 2*

12:30-13:30: Lunch, speed meetings, and presentation of students' projects

- *Hall*

13:30-15h30: Presentations of the papers and round table discussion

- *Second round table discussion - Salle plénière*
- *Presentation of the papers (Phase 2) - Lobby and Lobby 2*

15h30-16h00: Awards and drinks

- *Salle plénière*

LUXEMBOURG CITY MAP



Neumünster Abbey

Main venue for the event
28 Rue de Münster
L-2160 Luxembourg
www.neimenster.lu



COMMITTEES

Organisation Committee

- Anna Carvajal, Project Assistant - Conference Coordinator, International Aid Department, Luxembourg Red Cross
- Elie Daher, Architect, Urban Planner Consultant
- Rémi Fabbri, Director of the Humanitarian Aid Department, Luxembourg Red Cross
- Marie Gallais, Head of Research Group, Luxembourg Institute of Science and Technology (LIST)
- Daniel Ledesma, Project Manager - Technical Coordinator, International Aid Department, Luxembourg Red Cross

Contact: aide.internationale@croix-rouge.lu

Scientific Committee

1. Arch. Grace Aaraj, OEA Beirut and MRAIC, Canada
2. Dr Arch. Hind Al-Shoubaki, University of Applied Sciences and Arts FHNW, Switzerland
3. Dr Calin Boje, Luxembourg Institute of Science and Technology (LIST), Luxembourg
4. Prof. Johannes Braumann, University for Arts and Design Linz, Austria
5. Dr Arch. Elie Daher, Urban Planner Consultant, South Korea
6. Prof. Dr Mattias Drilling, University of Applied Sciences and Arts FHNW, Switzerland
7. Assist. Prof. Roula el Khoury, Lebanese American University, Lebanon
8. Dr Remi Fabbri, Humanitarian Aid Department, CRL, Luxembourg
9. Dr Marie Gallais, Luxembourg Institute of Science and Technology (LIST), Luxembourg
10. Dr Arch. Annie Guerriero, Luxembourg Institute of Science and Technology (LIST), Luxembourg
11. Dr Gilles Halin, Univ-Lorraine, France
12. Dr Arch. Florian Hertweck, University of Luxembourg, Luxembourg
13. Dr Kevin Jacquot, ENSA Lyon, France
14. Arch. Maxence Labossé, ENSA Nancy, France
15. Arch. Daniel Ledesma, Humanitarian Aid Department, CRL, Luxembourg
16. Dr Arch. Carmen Mendoza Arroyo, IUC Barcelona, Spain
17. Prof. Burak Pak, KU Leuven, Belgium
18. Dr Jean-Philippe Poli, CEA Paris-Saclay, France
19. Dr Arch. Olivier Vessart, UCL, Belgium
20. Dr Arch. Alessandra Zanelli, Polimilano, Italy
21. Arch. Tianyu Zhu, Technical University of Munich, Germany

CONTACT

Contact us: aide.internationale@croix-rouge.lu

Visit our website: www.croix-rouge.lu/en/innovation-in-humanitarian-habitat/

Learn more about the Shelter Research Unit:

<https://www.croix-rouge.lu/en/project/shelter-research-unit-3/>



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